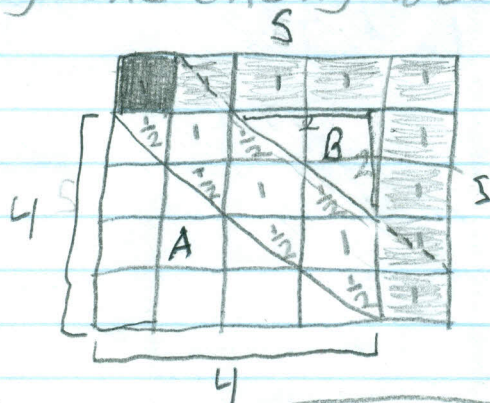


P.O.W. 4<sup>10</sup>/<sub>10</sub>

10-25-10  
due - 10-29-10  
Jack Dugan  
gently  
from  
Pablo  
H

X A unit square is translated 4 units to the right and then 4 units down and then is returned directly to the starting location. What is the total area swept by the traveling square. Count the beginning and ending location only once.



Total area travelled  
15 units<sup>2</sup>

X Since this problem came without a visual aid, for my first step towards solving the problem, I decided to create a picture. Creating the picture proved very hard, so I consulted my classmates, and decided that the picture above represented the area translated by the square. Next, I attempted to calculate the area translated by the square. This also proved challenging. However, I found a very easy way to find the area. I simply counted the squares. I also found a second method. I envisioned the whole grid as a  $5 \times 5$  square ( $A = 25$ ). I then subtracted the area of triangle A from the square ( $25 - 8 = 17$ ). I then subtracted the area of triangle B from 17 ( $17 - 2 = 15$ ). I found the area translated by the square was 15 units<sup>2</sup>.

I like how you solved the problem differently! Others added to get ~~more~~ the solution! You subtracted! Different! I like it! :)

0/0

This Problem appeared easy right-off the bat, but it was more complexed than it originally seemed. It was quite  
+1 challenging to figure out how the figure  
out how the figure returned directly to the starting location.

2/2

10/10

I like how you solved the problem  
and how you added to it. I like how  
you explained it. I like how you